"Minimized" LM-PCI *ín* The Elderly Patient

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### **Potential conflicts of interest**

#### **Speaker's name: Ho Thuong Dung**

**☑** I have the following potential conflicts of interest to report:

#### **Consultant, Institutional grant/research support:**

Abbott Medtronic Terumo Biotronik Roche AstraZenrca Sanofi Synthelabo Boehringer Ingelheim

# **Our real practice**

 In VN, the concept of "The Satellite- Nuleus Hospitals" from VN Ministry of Health

⇒ The "Satellite- Nucleus" Cathlabs



# **Our real practice**

## WHAT CAN WE DO?

**A.** Continuing to persuade them bypass surgery. If not, sending them back

**B.** Explaining and keeping medical therapy

**C.** Daring do some challenging difficult missions

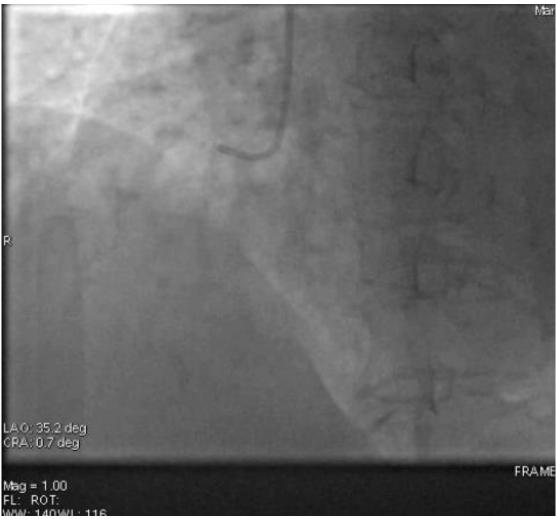
### LAM THI T., 75 years-old female

- Was transferred from a local hospital in the middle of VN on 14th March, 2018.
- Risk factors: HTA, dyslipidemia, DM 2.
- Hospitalized with NSTEMI one month ago at provincial hospital
- Was sent to cathlab for revascularization for NSTEMI

- ECG: sinus rhythms, ST-T depression at V4- V6
- Echocardiography: EF 45%, some hypokinetic wall motion abnormality.
- **CAG at provincial hospital:** *TVD with severe LM disease and severe calcified diffused lesions with 2 aneurysm/Dilatation on ostial and proximal segment of LAD*

- Their interventionist tried to do PCI to RCA but only POBA
- They stopped procedure and send her to our hospital for revascularisation

### CASE Nº 1: NSTEM Díagnostíc Angiography (at local hjospítal) RCA



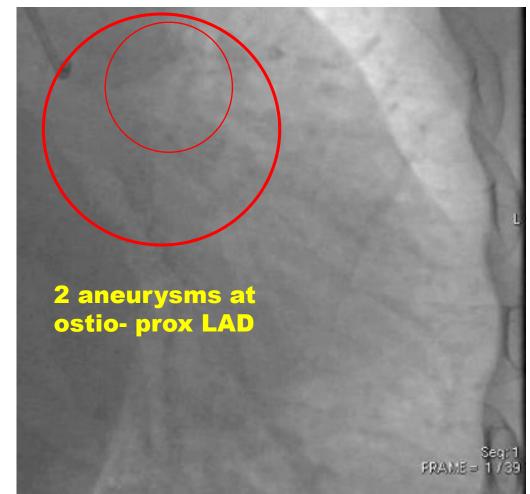


Díagnostíc Angíography (at local hospítal)

LCA



#### LCA



Pay attention to 2 aneurysms at ostium and proximal LAD

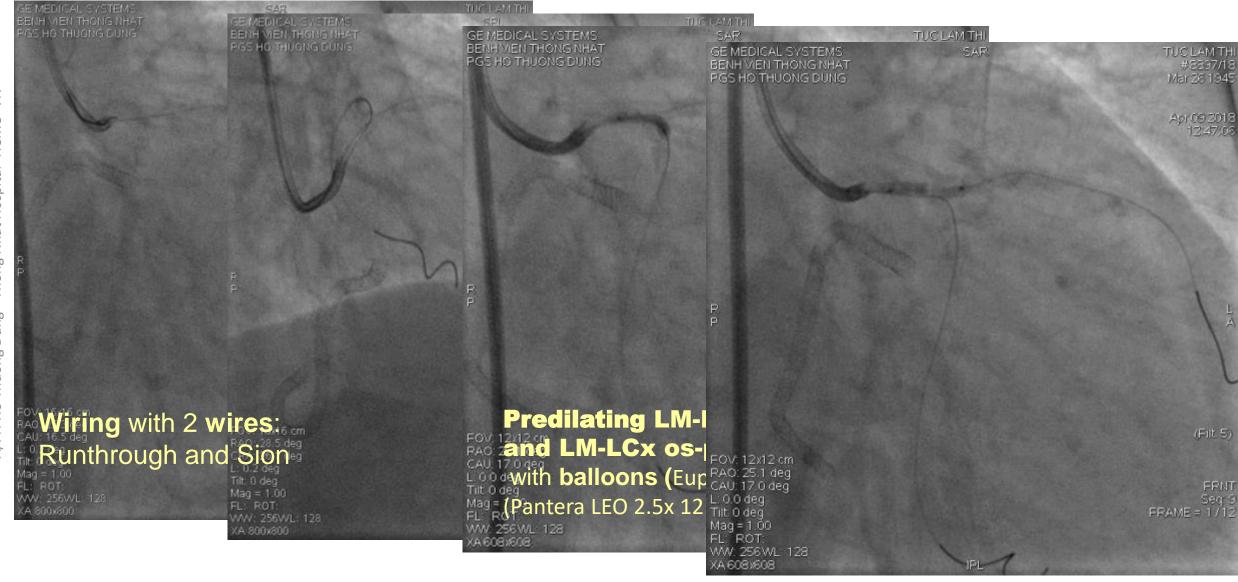
### WHAT WE CAN DO FOR THIS PATIENT?

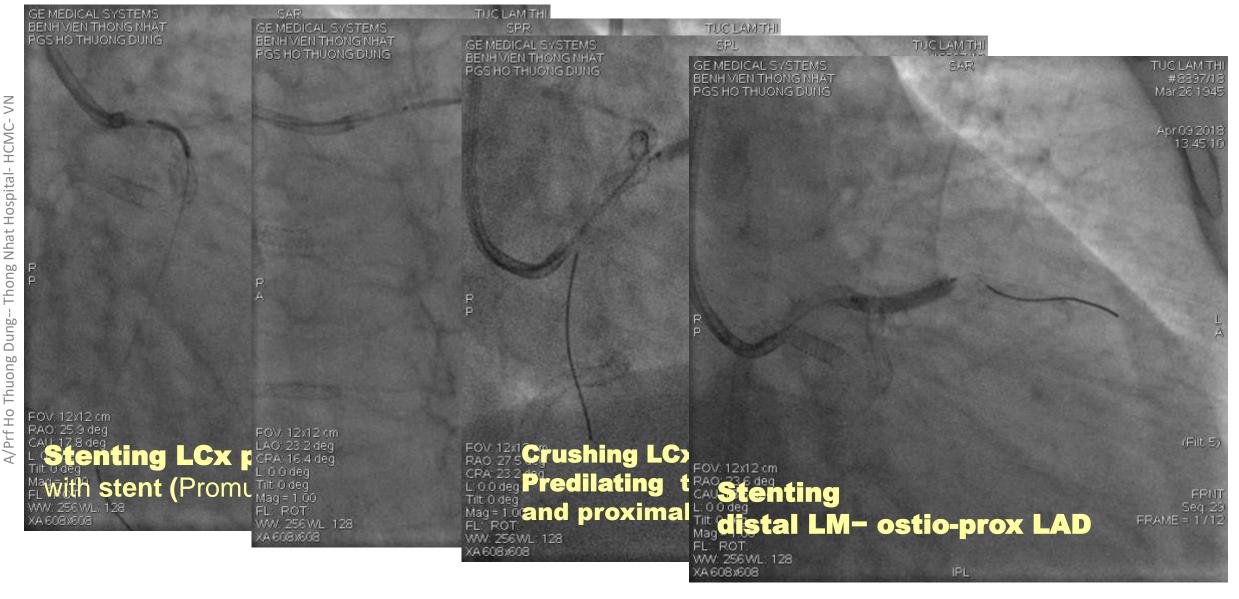
#### SYNTAX SCORE= 44, with

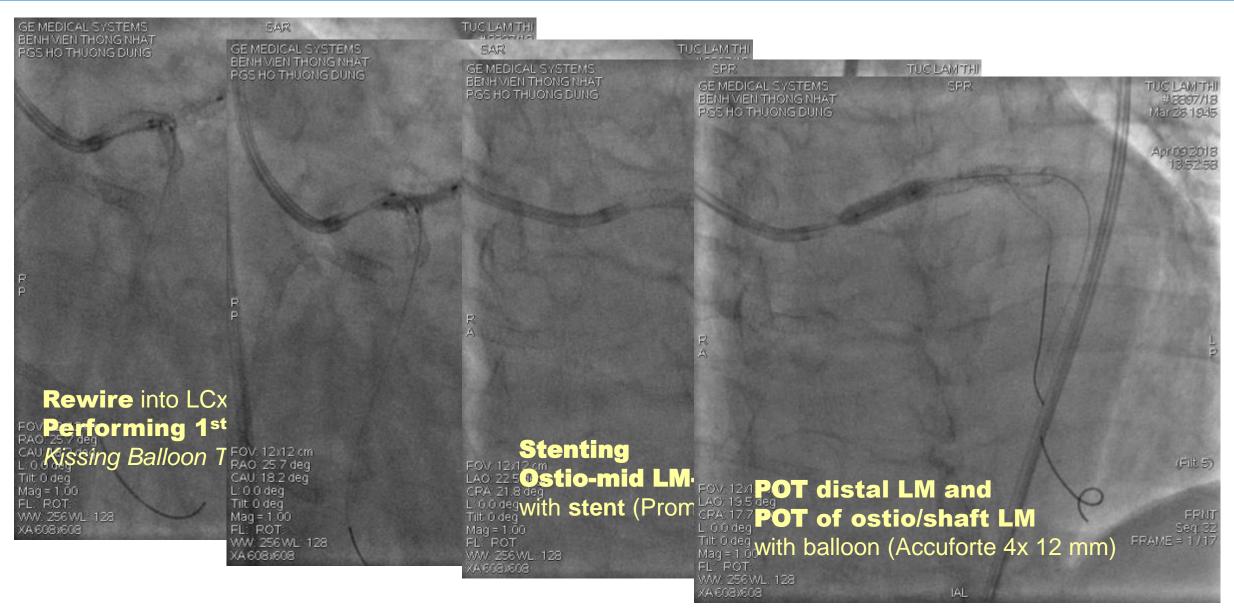
- LM disease at ostium and distal segment
- Diffuse lesions along both of LAD and LCx
- 2 aneurysms at ostio-proximal LAD

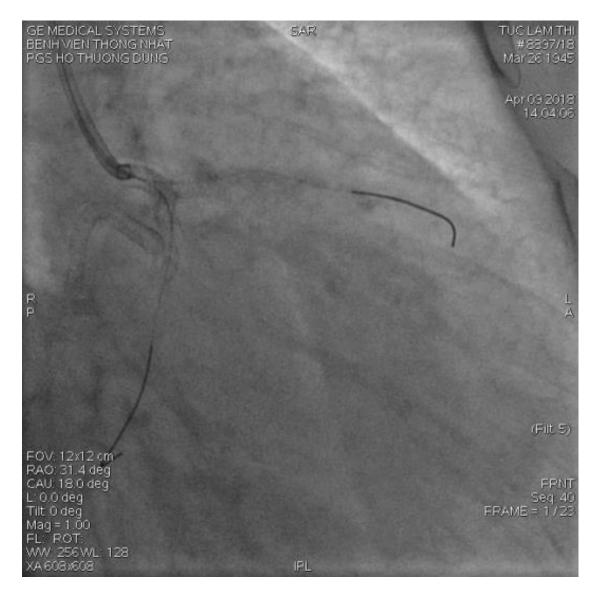


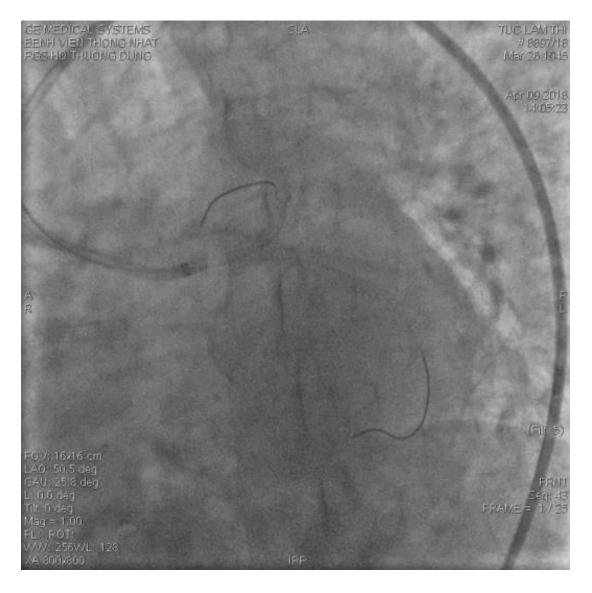
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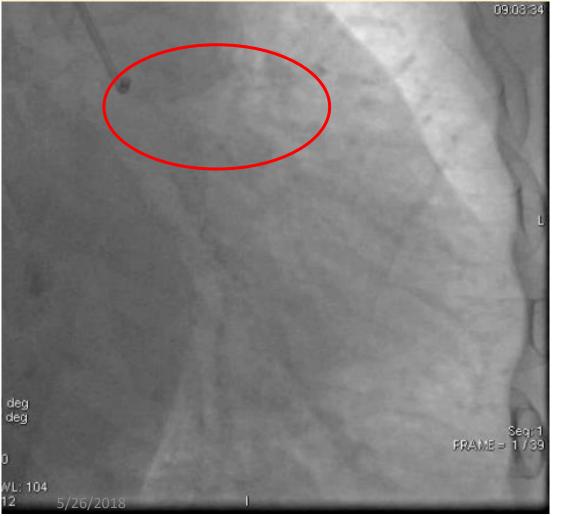




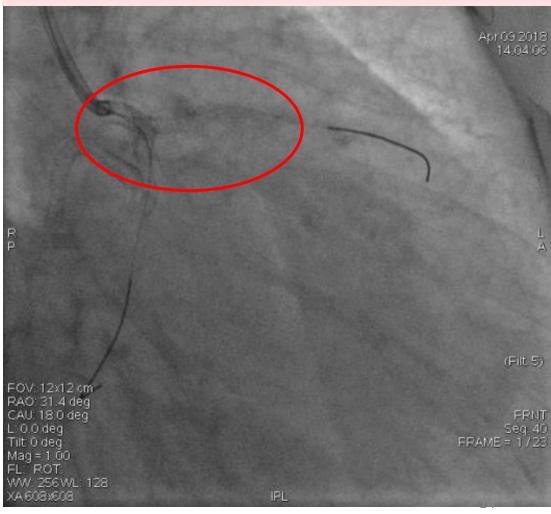


### Result of PCI

#### **PRE- PCI**

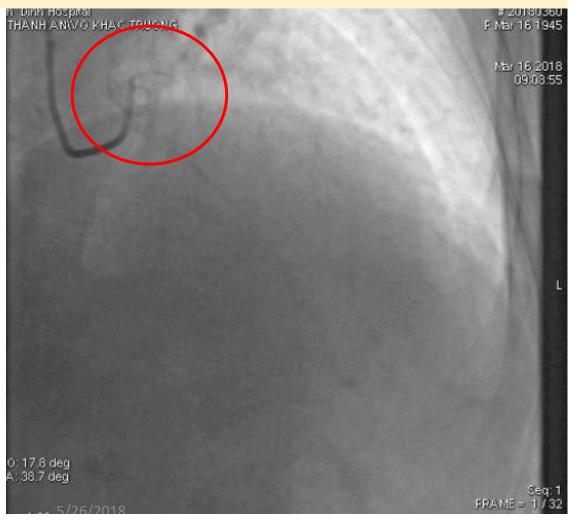


#### **POST- PCI**

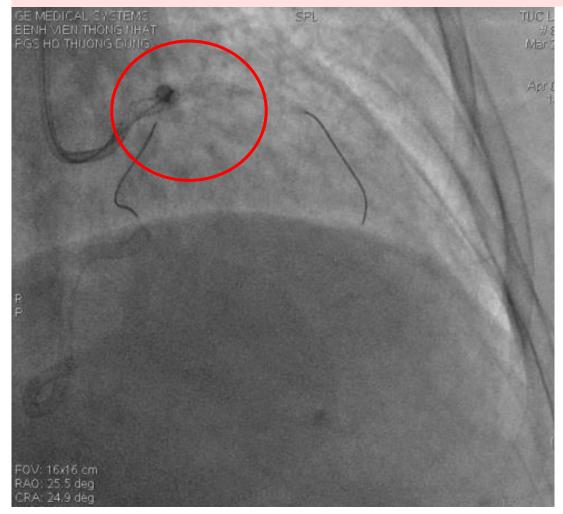


### Result of PCI

#### **PRE-PCI**

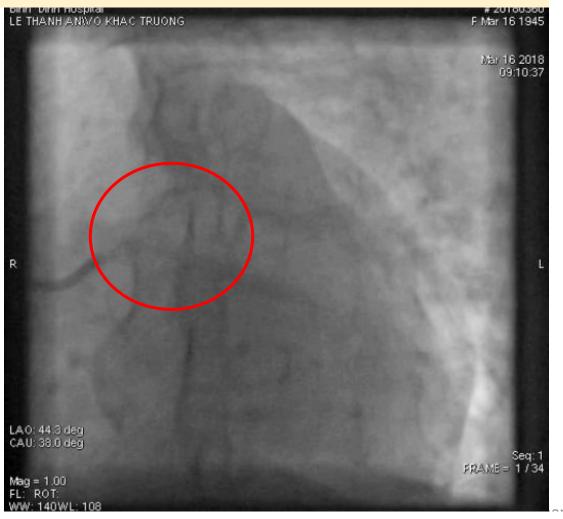


#### **POST- PCI**

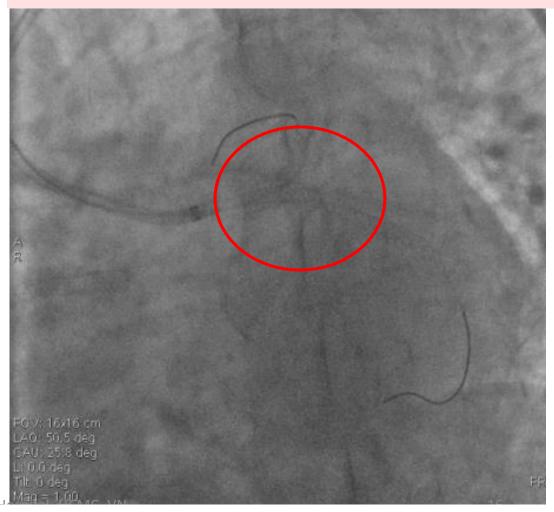


### Result of PCI

#### **PRE- PCI**



#### **POST- PCI**



## "MINIMIZED LM-PCI"

### What is the "Minimized LM-PCI"?

**Minimized LM-PCI** is strategy for incomplete PCI in case of very severe LM disease with very high procedural risk. We do stenting to only LM with/without ostium of LAD/LCx, provided the benefit of intervention exceed those of inaction.

### NGUYEN NGOC M., 84 years-old male

- Was transferred from a local hospital at central high land of VN on 30th March, 2017.
- CAG at provincial hospital: TVD with severe LM disease and severe calcified diffused lesions

- **Their interventionist** tried to do PCI to RCA in rescuing the patient at high risk of NSTEMI. They did wiring and predilating with balloons successfully. However, they *failed to advance the stents (due to very calcified and tortuous)*
- They stopped procedure and send the pt to our hospital emergently

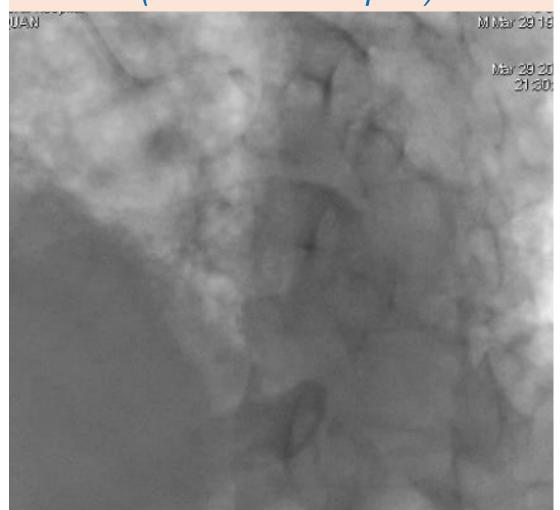
### RCA-Angíogram



LCA-Angiogram



### LCA- Angíogram (at the local hospital)



LCA- Angíogram (at the local hospital)



After we do PCI to RCA well, he felt better but... What should we do? What can we do?

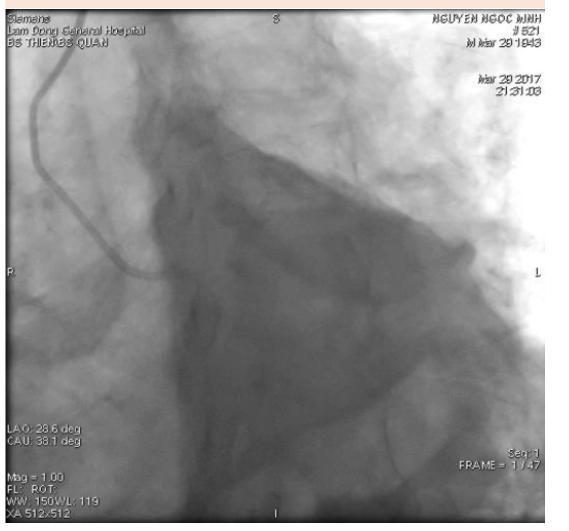
**A.** Continuing to persuade them bypass surgery.

**B.** Explaining and keeping medical therapy

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## WHAT CAN WE DO?

#### LCA



# Rationale for **PCI to LM/LCA**

**PROBABLE BENEFIT:** Left coronary artery system was very severe stenosis. There was *no significant collateral flow from RCA (even after stenting RCA well)* 

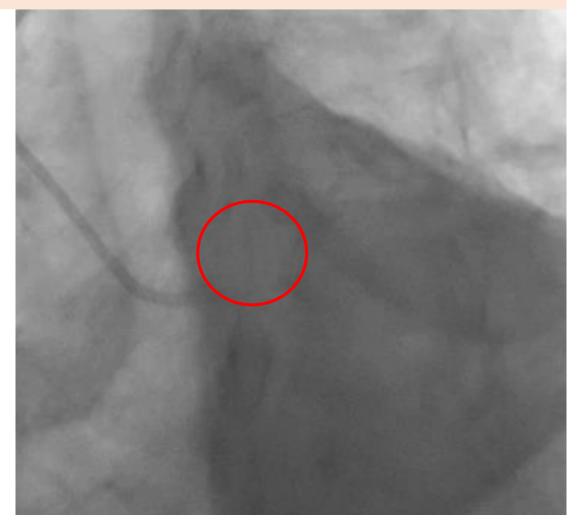
**VERY HIGH RISK:** There seems to be very calcified tight stenosis at both ostium and distal LM. The angles of bifurcation of distal LM were acute or right angles (LM-LAD and LM-LCx).

⇒ They make anything (Balloon/Stent) get stuck very easily with terrible disasters

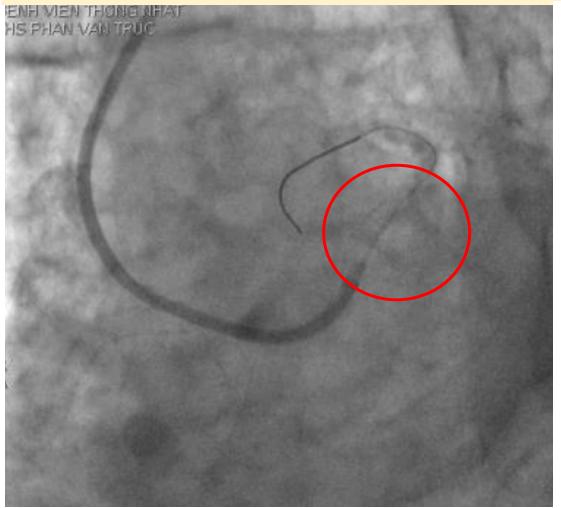
Maybe, PCI to just "only LM" ?

## CASE Nº 2: Last result of PCI

**Pre- PCI** 

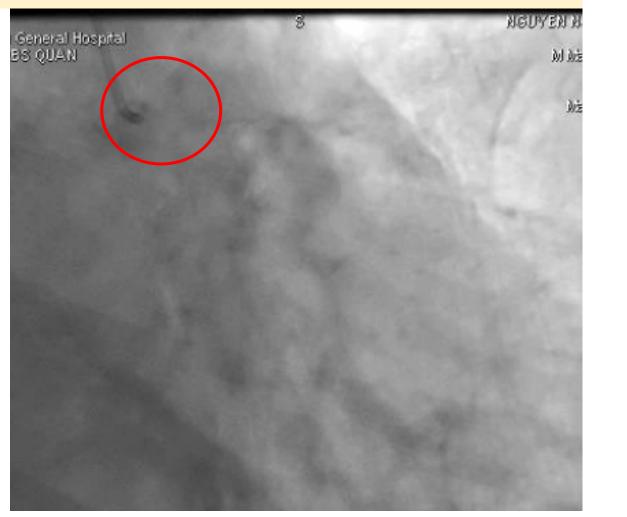




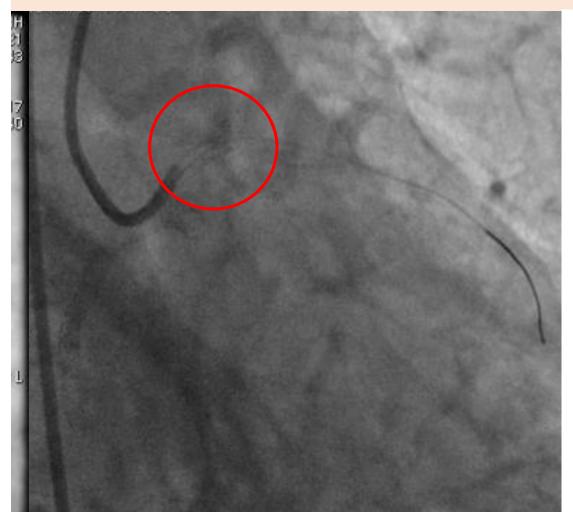


## CASE Nº 2: Last Result of PCI

#### **Pre- PCI**



#### **Post-PCI**



Finally, the patient felt well. His family told that he can go upstair *(never done before)* We continue to follow up him...

A/Prof Ho Thuong Dung, Thong Nhat hospital, Hochiminh city, VN

## CONCLUSIONS

CAD of the Elderly: being often very severe: diffuse, dilated, tortuous, very calcified...,particularly type C, Bifurcation, LM, TVD, CTO...

⇒ *PCI in the Elderly* requires advanced techniques and assistant instruments

Complete Revascularization in the Elderly sometime should be modified

In case of very challenging LM disease, **minimized LM-PCI** may be reasonably acceptable choice in older patients particularly at very high procedural risk

DK-Crush seems to be a suitable 2-stent techniques for the revascularization of very complicated LM revascularization at the Elderly

HUE City VIETNAM

### Thank you for your attention!